Customer Deliverable Documentation
Revision 1.00, March 15th, 2016.

SmartMedia v2.8.111 Release Notes

New to the v2.8.111 Release

Bug Fixes:

- UUI in REFER message is not passed to the SIP side correctly
- 183 mapped to early ACM instead of ACM "subscriber free"
- Backup unit clock status on a N+1 system is showing error
- snmpwalk fails for some OIDs
- SN10k always sends INIT even if "Initiate SCTP association" is disabled
- SIP-I to SIP call: SIP-I 183 Progress with ACM BCI/CPS="subscriber free"
- MTP3 route status "Rx/Tx transfer allowed msg cnt" returning wrong values.

Enhancements:

- Possible to Modify SIP User-Agent and Server headers

History of Solved CTS Cases

The following list refers to open cases in the Change Tracking System 'CTS'

Build Series v2.8.110

Enhancements:

- Support SIP header P-RTP-Stat in SIP

Build Series v2.8.109

Bug Fixes:

- UUI in REFER message is not passed to the SIP side correctly
- SN10k to support To/From fields modified by SIP peer even if illegal
- P-Asserted-Identity is not working when using with Charge Indicator with tel URI scheme.

Build Series v2.8.108

Bug Fixes:

- Routing script problem when calling log_trace with format specifiers
- CANCEL on outbound SIP-I call should not have encapsulated ISUP
- Multiple CANCEL sent on outbound SIP-I
- Release call after T6 reception of INFO/SUSPEND

- Missing Content-Disposition non multipart SIP-I message with ISUP
- Error in engine when freeing mixer

Build Series v2.8.107

Bug Fixes:
- Gateway routing script problem with empty key in hash
- Invalid merge of iLBC SDP capabilities with local profile
- Simultaneous reboot of 2 adapters may cause re-allocation of stacks
  of other adapters
- A single "D-channel down event" in NFAS triggers T309 on certain calls
  (dropping them after 90sec)
- Support space character in front of SIP UUI field for relay to SIP

Build Series v2.8.106

Bug Fixes:
- 183 mapped to early ACM instead of ACM "subscriber free"
- Local RBT generating issue.
- H.248 IP Interface became INVALID after upgraded to rel2.8.91
- Error: Invalid mysqld version: expected 5.0, 5.1, 5.5.35, 5.5.37, 5.5.41 and this system has 5.5.44 on upgrade to 2.9

Build Series v2.8.105

Bug Fixes:
- D-Channel connection request from the TDM peer is accepted by IUA even if the MGC had requested a RELEASE request on the link
- "Use sender's codec order" option is not supported for H.248 calls
- System status *SMS* tab is red with a direct connection between two units
- Clock stays on holdover upon STM1 APS switch-over
- SN10100 responds with RFC2833 even MGC did not request it
- Announcement server: Prompt should not be repeated after barge-in interruption

Enhancements:
- Increase Route: Called and Calling field to support up to 2000 chars
- Enable SIP quirk to add brackets in SIP URIs in headers: From, To, Contact

Build Series v2.8.104

Bug Fixes:
- Engine segfaults when receiving too many DTMFs in DTMF INFO mode.
- Unnecessary H.248 ServiceChange reported to MGC
- Older database may contain "leaked" timeslots entries that need to be cleaned-up
- Properly skip SIP Relay scheme SIP INFO if not found on endpoint's Allow header.
- UUI no relayed between SS7 and ISDN

Build Series v2.8.103

Bug Fixes:

- Switch to passthrough from G.729 is refused because changes in Local SDP were not reported to MGC
- H.248 tdmc/ec and tdmd/gain properties are reported in the TerminationState descriptor instead of the LocalControl descriptor
- Remove M3UA SAP Closed state
- B-Channels Blocked on D-Channel Reset after LOS condition on trunk

Build Series v2.8.102

Bug Fixes:

- call recording: failure to download if file recorded on the secondary host
- Live reconfiguration of M2UA relay TOS byte puts the link down
- *SMS* CPU1 not accessible upon reboot at the beginning of flash update procedure
- Broken Windows XP compatibility when compiling with MsDev 2010+

Build Series v2.8.101

Bug Fixes:

- CED tone not forwarded in v.17 calls in T.38 mode
- Engine may crash while generating trace for UCT after starting to record a file
- Toolpack Engine, upon re-sync, should not drop an active entity (mixer/leg) joined to an inactive entity

Enhancements:

- Support record/playback using VOIP devices

Build Series v2.8.100

Bug Fixes:

- STM1 BIP and REI line errors caused by clock source
- T.38 fax level parameter is not taken from profile when in H.248+passthru mode
- SN10100 & SN10200: Web Application Vulnerable to Clickjacking
- H.248 tdmc/ec and tdmd/gain properties are reported in the TerminationState descriptor instead of the LocalControl descriptor

Build Series v2.8.90

Bug Fixes:

- Engine may crash while generating trace for UCT after starting to record a file
- T.38 fax level parameter is not taken from profile when in H.248+passthru mode
- SN10100/SN10200: Add Web Application protection to Clickjacking
- H.248 tdmc/ec and tdmd/gain properties are reported in the TerminationState descriptor instead of the LocalControl descriptor

Build Series v2.8.89

Enhancements:

- New configuration option to prevent multiple CPG from being sent to incoming call leg while doing route retry

Bug Fixes:

- M3UA load share mode with round robin option is not working
- File playback on standalone units is not working
- SmartMedia Engine, upon re-sync, should not drop an active entity (mixer/leg) joined to an inactive entity

Build Series v2.8.88

Bug Fixes:

- Some default tone definitions in the Australian tone profile are incorrect

Build Series v2.8.87

Enhancements:

- Support SIP 300 as transfer request
- SIP 300 multiple choices response stops at first destination if there is no answer
- Support of SIP 301/302 to ISUP REL 22/23
- M2UA <-> MTP2 relay mode
- Support LNP with SIP 302 Redirect
- Support ISUP "Query on Release" as redirect request
- New configuration option to prevent multiple CPG from being sent to incoming call leg while doing route retry

Bug Fixes:

- FPGA should not shutdown Ethernet path toward VoIP device in case of network flood on SN10100
- H.248: Second ring tone cannot be stopped if terminations had been disconnected while a first ring tone was active
- end_route_retry field not updated properly in the Web Portal
- calling_category can't be set from routing script
- H.248 Echo cancellation property (tdmc/ec) is reported as "True" or "False" instead of "On" or "Off"

Build Series v2.8.86

Bug Fixes:

- Unnecessary H.248 ServiceChange reported to MGC after a handover to a standby MGC using the same IP address
- Folder cleanup deleting files that are not the oldest
- Switch to fax from G.729 is refused because change in Local SDP were not reported to MGC
- Some manual COT tests can erroneously report a failure
- System does not recover H.248 connection after halt/restart of system with some MGC

- Stream Server errors (io_getevents) when playing using a folder path instead of file path
- Management shutdown should also be applied to the last running stream server instance
- N+1 Patch Panel - Unable to convert from temporary to permanent license without rebooting
- PAI, Privacy and RPID headers removed from INVITE after 401 Unauthorized
- Streamserver does not reload file to cache after it's renamed
- H.248 fails to decode some cases of wildcard usage in SDP

Build Series v2.8.85

Bug Fixes:

- Setting an ephemeral termination inactive may prevent tone generation on other terminations in the context
- SN10200 BU +1 : vlans with no external ports are accepted

Build Series v2.8.84

Bug Fixes:

- M3UA Dynamic routing key registration
- T36 timer's default value causing a 10s delay for call to be processed by SmartMedia_engine

Build Series v2.8.83

Bug Fixes:

- Wrong T.38 triggering by old PBX Music on Hold
- Route Retry profile configuration lost during upgrade

Build Series v2.8.82

Enhancements:

- Add configuration option for SN10k to warn about CentOS updates availability

Bug Fixes:

- SN10200 sends telephone-event payload with incorrect clock rate in SDP answer when multiple telephone-event payloads is received in SDP offer
- SN10k Cannot collect digit with RFC2833 even if RFC2833 is negotiated successfully
- H.248 fails to support a 'choose' media type when mixed with other media types.
- 18376 - Setting an ephemeral termination inactive may prevent tone generation on other terminations in the context.
- Activating configuration causes H.248 calls to be dropped.
- Hardware Unit status do not show "reboot required" alarm when enable V.152 VBD is used
- IUA Heartbeat timer in IUA configuration is used for RFC4233, not SCTP
- Error when updating IUA link from status tab in web portal

Build Series v2.8.81

Enhancements:

- Support SS7 ANSI Carrier Identification Code (CIC)

- Announcement Collected Digit in CDR END log
- Support G.722/8000 in H.248

Bug Fixes:
- SN10k plays dial tone continuously and cannot collect called DN with Czech tone variant

Build Series v2.8.80

Bug Fixes:
- Connected number always insterted in ANM
- Allow routing scripts to repeat announcements and CAS on-hook duration
- Tool tip typo
- Lawful Interception now working for called remapped using a regex

Build Series v2.8.70

Enhancements:
- Support G.722

Bug Fixes:
- Typo in MTP3 priority help
- Current number of out of service fix term updates incorrectly due to H248 allows to choose d-channel timeslot

Build Series v2.8.69

Bug Fixes:
- Wrong H.248 error message reported to MGC when resource are refused
- H248 current number of "in-service" fix term is wrong when disabling unit
- Profile SDP (ptime) for clear channel has precedence over local profile from MGC in H.248
- V.34 activation warning on SN10k 1+1
- Failed to fall back to pass-through mode from T38 negotiation in H.248
- Preferred version of rubygems is reporting 1.4 instead of 1.3.7

Build Series v2.8.68

Bug Fixes:
- SN10k should prevent change minimum jitter higher than maximum jitter
- call on hold does not revert to sendrcv after receiving SDP without sendonly indication when used with late offer model.

Build Series v2.8.67

Bug Fixes:
(partial) - MGC Controlled T.38 Fax not reporting Tone Event following a continuity test
- Expected installer name may be incorrect when installing from the web portal
- MGC enabling end-of-fax event erroneously activated fax tone det. res. depleting resource faster

Build Series v2.8.66

Bug Fixes:

- H.248 - MGC Initiated Service Restoration - MGC Unknown State
- H.248 - Current number of in service fix term updates incorrectly

Build Series v2.8.65

Enhancements:

- Support ISUP Variant Russia

Bug Fixes:

- MGC Controlled T.38 Fax not reporting Tone Event following a continuity test
- SS7 decoding errors
- SN10k does not send ANM upon receive 200 OK
- Abnormal alarm is raised when adding new 1+1 group without Primary or 1+1 Backup Unit
- Failure to process sdp with video in H.248
- Wrong help for Switching type in TDM Line Interfaces
- Circuit group continuity test unreliable
- H.248 modifying only local media has no effect

Build Series v2.8.64

Bug Fixes:

- APS state machine does not recognize SFHIGH and SDHIGH in STM mode
- H.248 malformatted response when a few terminations are out-of-service

Build Series v2.8.63

Enhancements:

- Must have only one identifier per primitive on M2UA

Bug Fixes:

- Could not select H.248 IP interface as x.x.x.x/28 or x.x.x.x/255.255.255.240
- Wrong column name inserted in configuration database after an upgrade
- Frequent MAC address change for MAC used by many VOIP channels causes high CPU usage, even if for another IP
- Can't find file to play among multiple streamservers when file path contains backslash
- Must refuse configuration if multiple M3UA Userparts use the same MTP3 Network

Build Series v2.8.62

Bug Fixes:

- Session Version inside SDP is changed
- Cannot record on internal host
- DNS response is not interpreted correctly

- Incorrect conversion from secondary unit to primary unit
- Add validation when manually adding ARP entries
- gateway problem due to late response (~2s) of the routing script because of blocking external request
- snmpd.log file keeps growing and it becomes a huge file
- Autoswitch to vbd does not get activated with H.248
- Could not select H.248 IP interface as x.x.x.x/28 or x.x.x.x/255.255.255.240

Build Series v2.8.61

Bug Fixes:

- Secondary Unit SCTP/M3UA will not activate - continues to send aborts.
- SIP 302 Moved temporarily doesn´t work when header contains a domain
- DNS response is not interpreted correctly
- Host cannot detect baseboard after a reset host role

Build Series v2.8.60

Bug Fixes:

- Ignore ISDN status message with incompatible state values
- IP interfaces with the RTP service on eth0/eth1 do not work
- M3UA ANSI converting from SLS 5bits to 8bits doesn't recover
- Shell ASR stats reset is causing invalid NAP stats

Build Series v2.8.45

Bug Fixes:

- T.38 does not seem to work if endpoint is behind NAT (using passive mode)
- Expansion of Trunks results in Error 410 response
- User-to-User SIP header is case sensitive and should not
- Confusing NAP "unused pct" stat
- Adapters got rebooted upon deleting ISUP CIC Groups
- Inappropriate error trace in CMC application when outgoing call is refused by call rate limiting
- MLPP doesn't pass the network ID
- Don't send BYE with SDP
- Trying to record to invalid file path is not refused by API as expected

Build Series v2.8.44

Bug Fixes:

- All calls fail due to duplicate number in digitmap files
- SN10k sends a RE-INVITE with "inactive" in SDP upon reactivating 'on hold' call
- H.248 COT (Continuity Test) fails if performed after connecting TDM leg to VOIP leg
- SIP IP Hairpining no voice when loopback is made between mod1/2 and mod3/4 voip devices
- H.248 515 ErrorDescriptor in separate CHOOSE ContextID

- SN10k didn't sent SIP Re-INVITE upon 407 Authentication if user=phone was present in the To header.
- ISUP ANSI double free for IAM msg when unrecognized IE is received

Build Series v2.8.43

Bug Fixes:

- Send SIP header Max-Forwards:1 instead of Max-Forwards:0 in OPTIONS request
- Adapter not detected by SmartMedia after reset host role
- DB Slave setup error if replication check is done at the same time the Master change its binary log file
- H.248 T.38 fallback to G711 passthrough
- Cannot record on internal host
- *SMS* status on web interface shows multiple problems when in fact there is only one
- Allow to disable the START cdr text entry generation
- Announcement playback does not generate signal completion event to MGC

Build Series v2.8.42

Bug Fixes:

- CICs blocked for 60 seconds after successful incoming in-call COT

Build Series v2.8.41

Bug Fixes:

- Stop SIP recursion when call is cancelled

Build Series v2.8.40

Bug Fixes:

- SIP redirect to properly support the 'q-value' fractional part
- Using the wrong SDP on the second late offer

Build Series v2.8.39

Bug Fixes:

- MTP2 link does not come up after CAS stack was on trunk

Build Series v2.8.38

Bug Fixes:

- MTP2 link going down and unaligned after changing mtp3 configuration on link using priorities
- SmartMedia_sys_manager leaking memory when querying sensors through SNMP
- Tones are still forwarded to the other side when an H.248 termination is in mode INACTIVE
- SNMP return invalid value for dsx1LineStatus (OID: 1.3.6.1.2.1.10.18.6.1.10)
- UUI in REFER message is not passed to the ISDN side correctly
- "Live" states changes are not propagated to standby host until configuration is applied

Build Series v2.8.37

Bug Fixes:

- SmartMedia Engine crashes when receiving a SIP call using a configuration profile whose name is longer than 30 characters
- VOIP resources not reallocated on SIP re-INVITE late offer
- OnCallLegSync and OnCmcLibReady may be inverted on applications with CTBCMCLibParams.mun32NumThreads > 1
- Uploading twice the same package simultaneously through the Web Portal may cause corrupted package installation

Build Series v2.8.36

Bug Fixes:

- Audio noise issue at the very end of some g.726 files
- Record VAD does not always detect silence at beginning of recording
- Inappropriate handling of ITX message (SIP-I)
- sip_header routing script parameter not correctly mapped with incoming values
- Problem when parsing an INVITE in which the SDP that contains both a voice media line (m=) and a t.38 media line
- ISUP: Calling number is not working for telcordia variant

Build Series v2.8.35

Bug Fixes:

- H.248 tones played with direction=internal are not stopped if facing termination is removed before the signal is removed
- H.248 Tone detection may fail after tone finishes playing on subsequent calls on the same timeslot
- H.248 trunk does not handle service change response with a general error format
- "Current number of out of service fix term" in H248 Status updates incorrectly
- H.248 tones with direction=internal from IP termination are still played when we remove the origin IP termination

Build Series v2.8.25

Enhancements:

- Flexible IP: Create/manage multiple interfaces on multiple physical Ethernet ports:
    - VLANs (Virtual Ports)
    - Bonding (Ethernet/IP redundancy)
    - Virtual IP Interfaces for various services (for RTP, SIP, Sigtran, H.248, Management)
- *Enhancements* related to Flexible IP:
    - Allow to modify IP address without reboot
    - Allow multiple IP addresses on VOIP interface
    - Support multiple IP addresses on one physical Voip port
    - Support sigtran and H.248 from a single IP address
- PPPoe support for encapsulating SN10K IP under single public IP interfaces

- H.248 *Enhancements*:
    - H.248 Digitmap support (xdd, edd and carr)
    - H.248 CAS
- Better Media-only NAP stats reporting
- SNMP *Enhancements*:
    - SNMP to expose WebPortal virtual names
    - Add new SNMP MIB for FAN, Power Supply, Calls, NAPs, High Availability and Clocking
    - Add new SNMP MIB for ISDN, CAS and SIP
- Support timeslot usage
- Add new SNMP TRAPs (NAP, PwrSupply, N+1, App, Clk, ISDN, CAS, SIP and H248)
- Support for V.152 VBD (Voice band data) for automatic Voice/Passthrough switching

Build Series v2.8.24

Enhancements:
- Support CNAM facility with 5ESS
- Add option to use PPPoE gateway as global default gateway

Bug Fixes:
- Tunnel destruction failing making next config to fail due to "already present password"
- Some g.726 files played from streamserver suffer from audio clipping
- Playing tones on CLEAR CHANNEL calls may block subsequent call attribute changes
- Ring tone is wrong when using UK profile
- Unable to find a Valid Transport Server when Contact has transport=TCP and Record-Route is in UDP
- Fail to play recall dial tone with France profile
- H.248 call fails when SDP is too long
- VOIP resources not reallocated on SIP re-INVITE late offer
- ISDN bchannel selection should be set to exclusive once a channel is chosen
- streamserver record channel may never close upon record completion

Build Series v2.8.23

Bug Fixes:
- SIP-I ITX/TXA relay

Build Series v2.8.22

Bug Fixes:
- TOS is not available in the cap file of tbsigtrace
- CCD call fails via SN10K trunk

- H.248 tones played with direction=internal are not stopped if facing termination is removed before the signal is removed.
- Some digits received through SIP INFO are not relayed correctly inband
- If MGC uses wildcard for the Local SDP, SN10K do not relay SDP as the SDP description in the profile

Build Series v2.8.21

Enhancements:
- Allow ring tone playback before alerting state
- Add host name in SNMP TB-MIB::tbHaAppTable and trap

Build Series v2.8.20

Enhancements:
- Add SIP Quirk to add or remove SIP UPDATE method in Allow header
- Add the progress percentage to hardware firmware installation progress

Bug Fixes:
- Cannot register to multiple proxy using the same AOR
- VoIP resource re-allocation delayed until 5 seconds after a previous file play finished
- All Status are SUCCESS when validating the invalid M2UA Peer's configuration
- Unit CPU usage low threshold can datafill more than 100 % and higher than Unit CPU usage high threshold
- Refuse to Save User with no password

Build Series v2.8.13

Bug Fixes:
- Cannot collect digit when make call via DISA number
- ISUP failure on a REL with parameter compatibility
- Some digits received through SIP INFO are not relayed correctly inband

Build Series v2.8.12

Enhancements:
- Add Reverse Charging Indication to routing script params

Bug Fixes:
- H.248 tones played with direction=internal are not stopped if facing termination is removed before the signal is removed.

Build Series v2.8.11

Bug Fixes:

- TB always refused the ASPUP with "Error code (Invalid ASP identifier)"
- M2UA link cannot return to service after change back to original configuration
- IUA links down when changing the Load share mode although we're using Traffic mode ACTIVE_STANDBY

Build Series v2.8.10

Bug Fixes:

- "Current number of in service fix term" in H248 status is not updated when TDM Line is idle
- IUA links do not come back UP after change back to a valid IP Interface configuration
- IUA links down when changing the Load share mode although we're using Traffic mode ACTIVE_STANDBY

Build Series v2.8.9

Enhancements:

- Add support for H.248 srvtn package (Q.1950 Annex A.10)
- Add support for missing tones (dt,sit,prt,cw,cr) in H.248 cg package (H.248.1 Annex E.7)
- Add support for missing tones in H.248 Q.1950 Annex 4 bcg package
- Add support for package alert from H.248.23
- Add support for package test from H.248.27
- Add support for package xcg from Q.1950 AnnexA

Bug Fixes:

- connctrl_lib never returns TONE_END when disconnecting while infinite (or repeating) tone is playing
- Failed to modify mtp3 linkset configuration
- Cannot enable DNS resolution the first time around

Build Series v2.8.8

Bug Fixes:

- MGC address in H248 Status changes to 0.0.0.0:0 when SN10K and MGC are disconnecting
- Codec change following ring tone may not be applied
- SIP failure when call has q= in Contact

Build Series v2.8.7

Bug Fixes:

- SN10K - Call have no speech path if far-end trunk use G729 codec

Build Series v2.8.6

Bug Fixes:

- SN10K - System rebooted due to excessive RAM usage

Build Series v2.8.5

Bug Fixes:

- H.248 call wrongly switch to passthrough when echo cancellation is disabled by the MGC, making calls fail
- H248 Error=442, too long SDP
- Cannot update the status of M2UA links when MTP2 links is down.
- M2PA links are impacted when the M3UA SAP is modified
- IUA is down when M3UA subsystem down
- Association mismatch between IUA and SCTP
- H.248 module restart after making call with echo cancellation property set
- MTP3 column cannot link to the associated PC in the MTP3 configuration
- Notification does not appear when check enable or disable SCCP configuration
- Abnormal alarm is raised when uncheck the 'M2PA' at Configuration/Web Profiles/Sigtran of the activating configuration
- System is down if data filling delay between heartbeat = blank (disable)

WWW

Please refer to the following online resources:

- Software Configuration Guide SmartMedia:
  http://www.patton.com/manuals/SmartMedia-scg.pdf
- SmartMedia Configuration Library:
  http://www.patton.com/support/kb.asp?cat=114
- SmartMedia FAQ:
  http://www.patton.com/support/kb.asp?cat=75

How to Upgrade

Please see http://www.patton.com/support/kb_art.asp?art=326.